

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		(mtj magnetic with tunnel with junction) same cap\$4 same (ta\$ tantalum)	US-PGPUB; USPAT	OR	OFF	2006/09/27 18:25
L1	1	"6331943".pn.	US-PGPUB; USPAT	OR	OFF	2006/09/27 18:25
S1	1444	(mtj magnetic with tunnel with junction)	USPAT	OR	OFF	2006/09/25 17:25
S2	220	(mtj magnetic with tunnel with junction) same shield	US-PGPUB; USPAT	OR	OFF	2006/09/25 09:44
S3	245	(mtj magnetic with tunnel with junction) same shield	US-PGPUB; USPAT	OR	ON	2006/09/25 00:34
S4	39	(mtj magnetic with tunnel with junction) same shield and (mosfet fet transistor)	US-PGPUB; USPAT	OR	ON	2006/09/25 00:40
S5	5	US-6365419-.DID. OR US-5940319-.DID. OR US-6191495-.DID. OR US-6165803-.DID. OR US-6542398-.DID.	US-PGPUB; USPAT	OR	ON	2006/09/25 17:56
S6	145	(mtj magnetic with tunnel with junction) and shield and (mosfet fet transistor)	US-PGPUB; USPAT	OR	ON	2006/09/25 00:51
S7	53	(mtj magnetic with tunnel with junction) same shield\$ and (mosfet fet transistor)	US-PGPUB; USPAT	OR	ON	2006/09/25 00:55
S8	173	(mtj magnetic with tunnel with junction) same metal same stack	US-PGPUB; USPAT	OR	ON	2006/09/25 00:56
S9	12	("20040063223"   "20040106245"   "6153443"   "6165803"   "6365419"   "6485989"   "6531389"   "6577529"   "6717215"   "6788570"   "6903400"   "6909129").PN. OR ("7105903").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/25 08:49
S10	27	(mtj magnetic with tunnel with junction) and (lateral strap) same (mask hardmask)	USPAT	OR	OFF	2006/09/25 09:03
S11	842	257/421-427.ccls.	USPAT	OR	OFF	2006/09/25 09:06
S12	1026	257/421-427.ccls.	US-PGPUB; USPAT	OR	OFF	2006/09/25 10:41
S13	6	(mtj magnetic with tunnel with junction) same shield	EPO; JPO	OR	OFF	2006/09/25 09:47
S14	5	(mtj magnetic with tunnel with junction) and (metal conductiv\$) with (mask\$ hardmask\$)	EPO; JPO	OR	OFF	2006/09/25 09:47

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S15	405	(mtj magnetic with tunnel with junction) and (metal conductiv\$) with (mask\$ hardmask\$)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/09/25 09:48
S16	272	257/421-427.ccls. and (magnetic with junction mtj)	US-PGPUB; USPAT	OR	OFF	2006/09/25 10:56
S17	463	"438"/\$.ccls. and (magnetic with junction mtj)	US-PGPUB; USPAT	OR	OFF	2006/09/25 11:19
S18	1477	("257"/\$.ccls. "438"/\$.ccls.) and (magnetic with junction mtj)	US-PGPUB; USPAT	OR	OFF	2006/09/25 10:58
S19	189	("257"/\$.ccls. "438"/\$.ccls.) and (magnetic with junction mtj) and electrode same (mask\$4 hardmask\$4)	US-PGPUB; USPAT	OR	OFF	2006/09/25 10:59
S20	16	("20010035545"   "20030198080"   "5748519"   "5852574"   "5894447"   "6072718"   "6128329"   "6134138"   "6169688"   "6169689"   "6188615").PN. OR ("6795334").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/25 17:01
S21	16	("20010035545"   "20030198080"   "5748519"   "5852574"   "5894447"   "6072718"   "6128329"   "6134138"   "6169688"   "6169689"   "6188615").PN. OR ("6795334").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/25 17:04
S22	2	("2002/0153580").URPN.	USPAT	OR	OFF	2006/09/25 17:04
S23	12	("20040063223"   "20040106245"   "6153443"   "6165803"   "6365419"   "6485989"   "6531389"   "6577529"   "6717215"   "6788570"   "6903400"   "6909129").PN. OR ("7105903").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/25 17:06
S24	3	("6518588"   "6552926").PN. OR ("6903400").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/25 17:07
S25	6	("5389566"   "5940319"   "5956267"   "6473336"   "6573586"   "6587370").PN. OR ("6894919").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/25 17:13
S26	54	(mtj magnetic with tunnel with junction) same (conduct\$ metal) with cap\$4	USPAT	OR	OFF	2006/09/25 18:08

## EAST Search History

S27	9	US-6385083-\$.DID. OR US-5640343-\$.DID. OR US-6081445-\$.DID. OR US-6667899-\$.DID. OR US-6430084-\$.DID. OR US-6853599-\$.DID. OR US-6815783-\$.DID. OR US-6781871-\$.DID. OR US-6778428-\$.DID.	US-PGPUB; USPAT	OR	ON	2006/09/25 17:56
S28	93	(mtj magnetic with tunnel with junction) same (conduct\$ metal) with cap\$4	US-PGPUB; EPO; JPO	OR	OFF	2006/09/25 18:18
S29	592	(mtj magnetic with tunnel with junction) same cap\$4	US-PGPUB; USPAT	OR	OFF	2006/09/26 13:26
S30	72	(mtj magnetic with tunnel with junction) same cap\$4 same (mask\$ hardmask\$)	US-PGPUB; USPAT	OR	OFF	2006/09/25 18:23
S31	4	("5734605"   "5768183"   "6794696").PN. OR ("6900490").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/25 18:30
S32	31	("5281485"   "5341118"   "5608593"   "5640343"   "5801984"   "5841692"   "5898547"   "6097625"   "6153320"   "6174582"   "6295186"   "6297983").PN. OR ("6518588").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/26 13:19
S33	16	(mtj magnetic with tunnel with junction) same cap\$4 same (ta\$3 tantalum) same (mask\$ hardmask)	US-PGPUB; USPAT	OR	OFF	2006/09/26 13:32
S34	62	(mtj magnetic with tunnel with junction) and cap\$4 same (ta\$3 tantalum) same (mask\$ hardmask)	US-PGPUB; USPAT	OR	OFF	2006/09/26 13:43
S35	9	(mtj magnetic with tunnel with junction) and cap\$4 same (ta\$3 tantalum ) and nitride with tantalum same (mask\$ hardmask)	US-PGPUB; USPAT	OR	OFF	2006/09/26 13:46
S36	9	(mtj magnetic with tunnel with junction) and cap\$4 same (ta\$3 tantalum ) and (n nitride) with (tantalum ta) same (mask\$ hardmask)	US-PGPUB; USPAT	OR	OFF	2006/09/26 13:49
S37	20	(mtj magnetic with tunnel with junction) and cap\$4 and (n nitride) with (tantalum ta) same (mask\$ hardmask)	US-PGPUB; USPAT	OR	OFF	2006/09/26 13:51
S38	31	(mtj magnetic with tunnel with junction) and cap\$4 same (n nitride) with (tantalum ta)	US-PGPUB; USPAT	OR	OFF	2006/09/26 14:07

## EAST Search History

S39	64	(mtj magnetic with tunnel with junction) and cap\$4 same (tan ta/n)	US-PGPUB; USPAT	OR	OFF	2006/09/26 14:07
S40	64	(mtj magnetic with tunnel with junction) and cap\$4 same (tan "ta/n")	US-PGPUB; USPAT	OR	OFF	2006/09/26 14:09
S41	48	(mtj magnetic with tunnel with junction) and cap\$4 with (tan "ta/n")	US-PGPUB; USPAT	OR	OFF	2006/09/26 14:15
S42	57	(mtj magnetic with tunnel with junction) and cap\$4 same (tantalum with tantalum adj nitride ta with tan)	US-PGPUB; USPAT	OR	OFF	2006/09/26 14:29
S43	59	(mtj magnetic with tunnel with junction) and mask\$4 same (tantalum with tantalum adj nitride ta with tan)	US-PGPUB; USPAT	OR	OFF	2006/09/26 14:39
S44	288	(mtj magnetic with tunnel with junction) and (tantalum with tantalum adj nitride ta with tan)	US-PGPUB; USPAT	OR	OFF	2006/09/26 14:41
S45	242	(mtj magnetic with tunnel with junction) and (tantalum with tantalum adj nitride ta adj tan)	US-PGPUB; USPAT	OR	OFF	2006/09/26 14:43
S46	115	(mtj magnetic with tunnel with junction) and (ta adj tan)	US-PGPUB; USPAT	OR	OFF	2006/09/26 18:08
S47	3	"6806096"	US-PGPUB; USPAT	OR	OFF	2006/09/26 18:12
S48	57	mram and diffusion adj barrier with (tan tin tantalum adj nitride titanium adj nitride)	US-PGPUB; USPAT	OR	OFF	2006/09/26 21:32